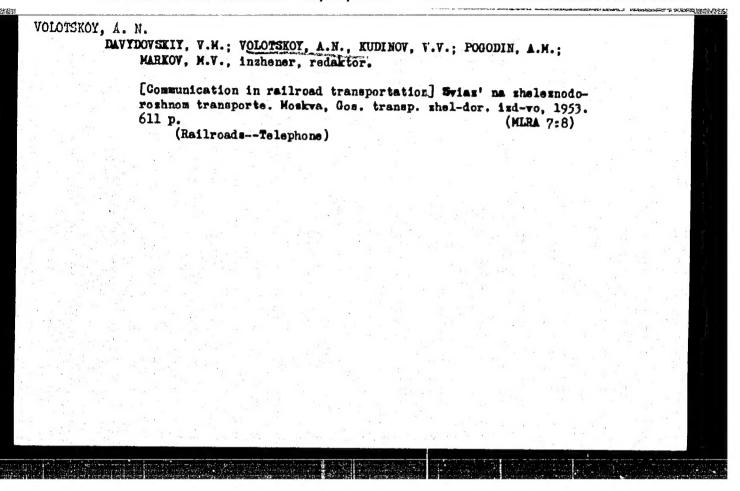
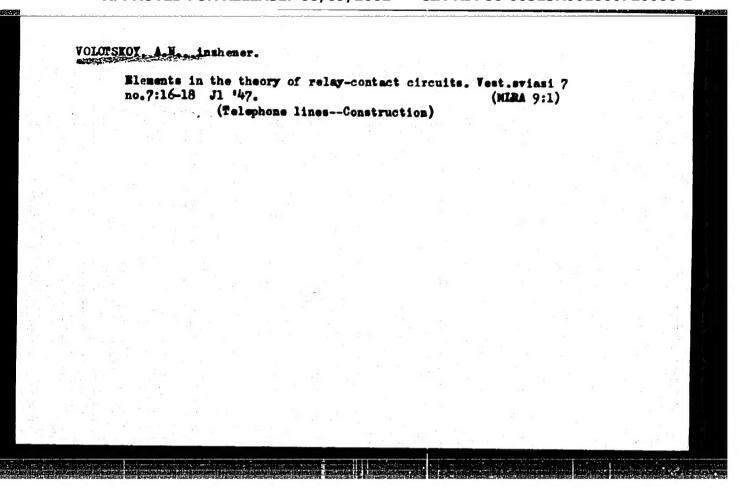
VOLOTSKOT, ALEKSANDR NIKOLAYE	WICH		N/5 653.021 .v9	
AVTOMATICHESKAYA TELEFO MOSKVA, TRANSZHELDORIZDAT, 19 231 P. ILLUS., DIAGRS.,	NHAYA SVYAZ' (AUTOMATIC	TELEPHONE COMMUNICATION		7 7
231 P. ILLUS., DIAGRS.,	TABLES.			
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APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001860720006-1"





SHUPLOV, V.T., kandidat tekhnicheskikh nauk; VOLOTSKOY, A.N., inzhener;

DEREVYANKO, N.S., kandidat tekhnicheskilh mank; Holling to tekhnicheskily redaktor.

[Automatic telephone communication in reilroad transport]

Avtomaticheskaia telefonnaia sviaz' na sheleznodorozhnom

transporte. Moskva, Gos. transp.zhel-dor. isd-vo, 1956, 173 p.

(Moscow. Vsesoduznyi nauchno-issledovatel'skii institut

zheleznodorozhnogo transporta. Trudy, no. 118).

(Railroads—Communication systems)

(Telephone, Automatic)

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001860720006-1"

"APPROVED FOR RELEASE: 08/09/2001 CI

CIA-RDP86-00513R001860720006-1

VOLOTSKOY, A.N., inzhener.

Circuite for semiautomatic telephone systems. Avtom., telem. 1 svinz' no.3:24-28 Mr '57.

(Telephone, Automatic)

(MLRA 10:4)

VOLOTSKOY, A.N., inzh.

Crossbar system. Avtom., telem. i sviaz' no.9:11-16 5 '57.
(MIRA 11:4)

(Telephone, Automatic)

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001860720006-1"

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VCLO i.s. C. A. I.	
Manual for the electrician and repairmen of the local	I telephone station as a network
Izd. 3., dop. i ispr. Koskva, Gos. transp. zhel-dor.	izd-vo, 1952. 399 p. (53-26802)
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1 . Tele hone stations. I. Volotskoi, A.N.	
되는 생생이 되고 있다는 제가 되는 가게 되었다.	
그 전기 되어 가셨다고 있다면 하게 되었다.	
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	位的第三章 影響 医结肠 化连续转换 经基础 医压缩性性溃疡 人名英格兰 医多种性皮肤 经基础 经经营

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001860720006-1"

VIOLETROY, A.N.

Sygaz'na Zieleznodorozhom Fransporte (Communication on Rie wailroad, hy)
V. M. Davydovskiy, A. N. Volotskoy, V. V. Kudinev, A. N. Popodin. Noskva, Fransziel611 P. Diagra., Tables.

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VOLOTSKOY, Aleksandr Nikolayevich, inzh.; STROGANOV, L.P., inzh., red.; BOBROVA, Ye.N., tekhn.red.

[Manual for the electrician and repairman of the local telephone station and network] Rukovodstvo elektromekhaniku i monteru mestnoi telefonnoi stantsii i seti. Izd. 4-ce, perer. Moskva, Gos.transp. Zhel-dor.izd-vo, 1957. 287 p. (MIRA 10:12)

1. Russia (1923- U.S.S.R.) Ministerstvo putey soobshcheniya. (Telephone--Handbooks, manuals, etc.)

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001860720006-1"

WOLOTSKOY, D.V., inshener.

Repairing old rails, Put' i put, khoz. no.7:10-13 J1 '57.
(MIRA 10:8)

1. Machal'nik slushby puti Kasanskoy dorogi.
(Railroads--Rails)

VOLOTSKOY, N.V., kand.tekhn.nauk

A few remarks concerning the new project of Chapter II-V-6 of
"Construction Specifications and Regulations." Svetotekhnik
7 no.10:27-28 0 '61. (MIRA 1/19)

1. Lenproyekt. (Electric lighting—Standards)

VOLOTSKOY, N.V.

Concerning the "Instructions on the design of municipal electrical networks (block networks with potentials up to 1000 volts in cities and large settlements). Issued by the State Committee on Construction of the Council of Ministers of the U.S.S.R. (SN-167-61). Trudy LIEI no.51:315-316 *64. (MIRA 18:11)

VOLOTSKOY, Nikolay Vasil'yevich; LEVITIN, I.B., red.; ZHITNIKOVA, 0.S., tekhm. red.

[Fluorescent lamps and diagrams for connecting them to the electrical network]Liuminestsentnye lampy i skhemy ikh vkliucheniia v set. Moskva, Gosenergoizdat, 1962. 43 p. (Biblioteka elektromontera, no.68) (MIRA 15:12) (Electric lighting) (Fluorescent lamps)

VOLOTSKOY, N.V., kard.tekhn.nauk

Present-day trends in the lighting of public buildings.
Svetotekhnika 8 no.7:16-20 Jl '62. (MIRA 15:6)
(Electric lighting—Standards)
(Lighting, Architectural and decorative)

TOPOLYANSKIY, A.B.; VOLOTSKOY, W.V., kandidat tekhnicheskikh nauk, redaktor; KAPLAN, M.Ya., redaktor; PULYKINA, Ye.A., tekhnicheskiy redaktor

[Ways of economizing on electricity in construction] Puti ekonomii elektroenergii v stroitel'stve. Leningrad, Gos.izd-vo lit-ry po stroitel'stvu i arkhitekture, 1955. 109 p.

(Blectric engineering)

Street lighting abroad.	Svetotekhnika 8 no.2:26-28 F '62. (MIRA 15:1)
l, Lenproyekt.	(Street lighting)

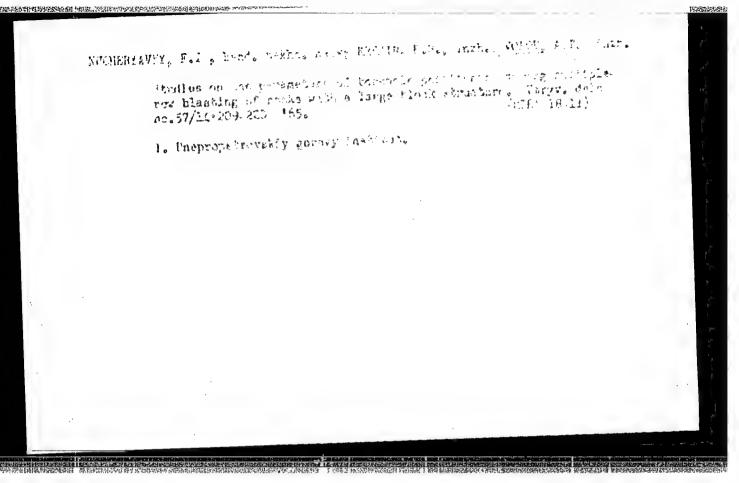
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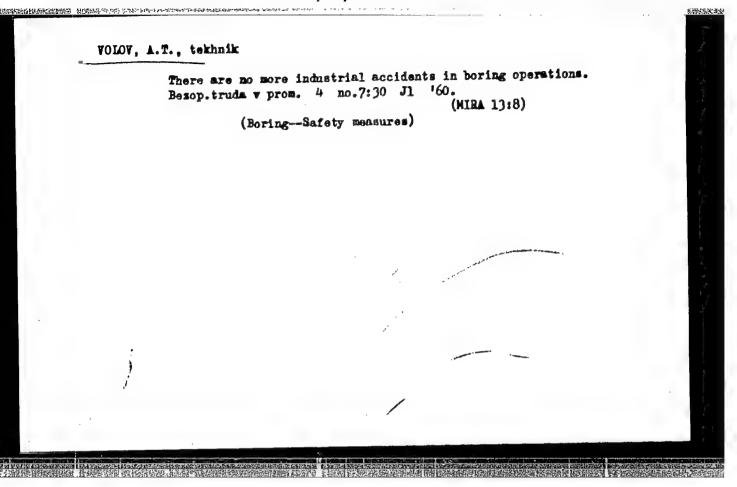
VOLOTSKOY, Nikolay Vasil'yevich; KNORRING, Gleb Mikhaylovich;
RYABOV, Mikhail Sergeyevich; SHAYKEVICH, Aleksandr
Semenovich; KLYUYEV, S.A., nauchn. red.; KNORRING, G.M.,
nauchn. red.

[Electrical lighting of industrial and public buildings] Elektricheskoe osveshchenie proizvodstvennykh i grazhdanskikh zdanii. [By] N.V.Velotskoi i dr. Moskva, Energiia, 1964. 767 p. (MIRA 18:2)

"APPROVED FOR RELEASE: 08/09/2001 CI

CIA-RDP86-00513R001860720006-1





CIA-RDP86-00513R001860720006-1

Improving the quality of rails. Put' i put. khoz. 4 no. 5:23-24 My '60. (MIRA 13:11)

1. Glavnyy inzhener sluzhby puti, Kazan'. (Railroads--Rails)

16(1), 16(2) 16.7300

AUTHOR:

Volov, G.M.

68037

SOV/55~59-3-5/32

TITLE:

A Problem on the Equilibrium of a Rectangular Solid for Mixed Boundary Conditions

PERIODICAL: Vestnik Moskovskogo universiteta. Seriya matematiki, mekhaniki, astronomii, fiziki, khimii, 1959, Nr 3, pp 35-42 (USSR)

ABSTRACT:

Let $\theta = \frac{\partial u}{\partial x} + \frac{\partial y}{\partial y} + \frac{\partial w}{\partial z}$ be the deformation of volume, Δ - the Laplace operator, δ - the Poisson coefficient. In the parallelepiped |x | \(\alpha_n \) |y| \(\alpha_n \), |z| \(\alpha_n \) let the components u, v, w satisfy the Lamé equations

 $\frac{1}{1-26} \cdot \frac{\partial \theta}{\partial x} + \Delta u = 0, \dots$

Under the assumption of certain boundary conditions which are representable by double Fourier series, (1) is solved rigorously with the aid of very complicated series representations given by the author in [Ref 7]. The coefficients of the mentioned series can be obtained explicitly from the boundary conditions. The proof of convergence for the series can be given if the Fourier coefficients of the boundary functions have a certain

Card 1/2

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001860720006-1"

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A Problem on the Equilibrium of a Rectangular Solid for Mixed Boundary Conditions

SOV/55-59-3-5/32

order of magnitude. As an example the author considers a steel cube.

The author mentions M.M.Filonenko-Borodich, Ye.S. Kononenko, Y.P.Netrebko, and B.F.Vlasov.

There is 1 table, and 8 Soviet references.

ASSOCIATION: Kafedra teorii uprugosti (Chair of Theory of Elasticity)
SUBMITTED: January 12, 1959

4

Card 2/2

VOLOVICH, N. I. 32756. VOLOVICH, N. I. i ZLATOPOL'SKAYA, R. D. Aktivneya immunizatelya protiv ekarlatiny. Trudy ukr. In-ta zpidemiopogii i mikrobiologii im. Mechnikova, T. IVI, vyp. 1, 1949, s. 45-80.—bibliogr: s. 77-80 SO: Letopie | Zhirmal'nykh Statey, Vol. 44, Meskva, 1949

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001860720006-1"

"APPROVED FOR RELEASE: 08/09/2001

CIA-RDP86-00513R001860720006-1

VOLOTSKOY, N.V., kand.tekhn.nauk

Practical methods for lighting class rooms. Svetotekhnika 7
no.9:4-8 5 '61.

1. Lenproyekt. (School houses--Lighting)

GIANTS, Yu.A., inch.; FINOMR, L.M., inch.; NIKOGOSOV, S.N., kand. tekhn. nauk (Ieningrad); MEDVEDSKIY, N.I., inch. (Ieningrad); VOLOTSKOY, N.V., kand. tekhn. nauk; BESSMERTHYY, I.S., kand. tekhn. nauk (Moskva); VOROMTSOV, F.F., kand. tekhn. nauk (Moskva).

Urgent problems relative to the theory of urban power networks.

(MIRA 11:3)

1. Khar'kovskoye otdeleniy Teploelektroproyekta (for Glants). 2. Giprokommunenergo (for Finger). 3. Lengiprogor (for Medvedskiy).

4. Lenproyekt (for Volotskoy).

(Electric power distribution)

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001860720006-1"

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DREMYATSKIY, N.S.; KARPOV, V.V.; VOLOTSKOY, N.V., kand.tekhn.nauk, retsenzent; KLEYN, P.N., inzh., retsenzent; NAVYAZHSKIY, L.G., red.; KAPLAN, M.Ya., red.izd-va; PUL'KINA, Ye.A., tekhn.red.

[Hendbook for electrical engineers for residences and public buildings. Edited by L.G.Naviazhskii] Spravochnik proektirovshchika-elektrika zhilykh i grazhdanskikh zdanii. Pod red. L.G.Naviazhskogo. Leningrad, Gos.izd-vo lit-ry po stroit., arkhit. i stroit.materialam, 1959. 247 p.

(MIRA 13:1)

(Electric engineering-Handbooks, manuals, etc.)

VOLOTSKOY, Nikolay Vasil'yevich, kand. tekhn.nauk; NOVIKOV, V.V., doktor tekhn.nauk, prof., nauchnyy red.; DENISOV, Yu.M., red.izd-va; GRIGOR'YEVA, I.B., red.izd-va; PROKOF'YEV, R.V., tekhn.red.; FUL'KINA, Ye.A., tekhn. red.

[Lighting engineering; a manual for architects] Svetotekhnika; posobie dlia arkhitektorov. Leningrad, Gos.izd-vo lit-ry po stroit., arkhit.i stroit.materialam, 1961. 153 p. (MIRA 14:12) (Electric lighting) (Lighting, Architectural and decorative)

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001860720006-1"

TIKHODEYEV, P.M.; FEDOROV, B.F.; VOLOTSKOY, M.V.; TELYAT'YEV, V.V.; ZIL'EER, D.A.;
SAPOZENIKOV, R.A.; SHAYKEVICH, A.S.; KHORRING, G.M.; SEREBRYAKOV, V.M.;
DADIOMOV, M.S.; LEVIT, G.O.

Professor Viacheslav Vasil'evich Novikov; on his 70th birthday.
Svetotekhnika 5 no.2:30 F '59.

(Movikov, Viacheslav Vasil'evich, 1888-)

(Hovikov, Viacheslav Vasil'evich, 1888-)

ASHKENAZI, G. I., inzh.; SUKHOV, N. K., kand. tekhn. nauk; VOLOTSKOY, N. V., kand. tekh. nauk

Letter to the editor. Svetotekhnika 6 no.11:21 N *60.

(MIRA 13:11)

GORFMAN, A.I., kend.tekhn.nauk; DEMBO, A.R., kend.tekhn.nauk; VOLOTSKOY...

N.V., kend.tekhn.nauk, nauchnyy red.; TIMOFEYEV, V.A., doktor
tekhn.nauk, retsenzent; TOLSTOY, M.G., kend.tekhn.nauk, retsenzent;
ROTENBERG, A.S., red.izd-va; VORONETSKAYA, L.V., tekhn.red.

[Automatic control in the construction industry] Avtomatika v stroitel stve. Leningrad. Gos.izd-vo lit-ry po stroit., arkhit. i stroit.materialam. 1959. 183 p. (MIRA 12:8)

(Automatic control) (Construction industry)

"APPROVED FOR RELEASE: 08/09/2001

CIA-RDP86-00513R001860720006-1

VOLOTSKOY, Mikolay Vasil'yevich

Lyuminestentnoye osveshceniye (Luminescent lights, by) N. V. Volotskoy,
D.A. Zll'ber i G.M. Knorring. Moskva, Gosenergoizdat, 1955.
304, p. illus, diagrs., tables.
Literatura: 302-304.

"APPROVED FOR RELEASE: 08/09/2001

CIA-RDP86-00513R001860720006-1

- 1. VOLOTSKOY, N. V.; AIZENBERG, B. L., Docent
- 2. USSR (600)
- 4. Serbinovskii, G. V.
- 7. Remarks on E. S. Iokhvidov's and G. V. Serbinovskii's article "Schemes of city networks in connection with multiple story building construction." Elektrichestvo. No. 10, 1952.

9. Monthly List of Russian Accessions, Library of Congress, January 1953, Unclassified.

VOLOTSKOY, N.V., kandidat tekhnicheskikh nauk. Illumination of schoolrooms. Svetotekhnika 2 no.5:18 8 '56. (MLRA 9:11) 1. Lenproyekt. (Schoolhouses -- Lighting) (Electric lighting)

> APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001860720006-1"

ZIL'BER, D.A., professor; VOLOTSKOY, N.V., kandidat tekhnicheskikh nauk; TELYAT'INV, V.V., inzhener.

Letter to the editor. Svetotekhnika 2 no.6:28-29 M '56.
(Leningrad--Subways) (Electric lighting) (MLRA 9:12)

VOLOTSKOY, Mikolay Vasil'yevich; ZIL'HER, David Aleksandrovich; ENORRING,
Gleb Mikhaylovich; LAZAREV,D.N., redaktor; ZAEHAROV,P.P., redaktor;
ZABRODINA,A.A., tekhnicheskiy redaktor

[Fluorescent lighting] Liuminestsentnoe osveshchenie. Moskva, Gos.
energ. izd-vo, 1955. 304 p. (MLRA 9:2)

(Blectric lighting, Fluorescent)

VOLOTSKOT, N.V., kandidat tekhnicheskikh nauk

Scientific and technical conference on illuminating installations.

Svetotekhnika 1 no.1:27-28 F 155.

(Klectric lighting)

AYZENBERG, Boris L'vovich; VCLOTSKOY, Nikolay-Vasil'yevich; IVANENKOV,
Mikhail Nikolayevich; KAMENSKIY, Mikhail Davidovich; KEZEVICH,
Vasiliy Vasil'yevich; MEDVEDSKIY, Nikolay Ivanovich; NIKOGOSOV,
S.N., red.; MELYET YEVA, Ye.A., red.; SOBOLEVA, Ye.M., tekhn.
red.

[Municipal electric systems; fundamentals of design and construction] Gorodskie elektricheskie seti; osnovy postroeniia i proektirovaniia. Moskva, Gos. energ. izd-vo, 1958. 328 p. (Electric power distribution) (MIRA 11:9)

- 1. AYZENBERG, B. L., Docent: VOLOTSKOY, N. V.
- 2. USSR (600)
- 4. Electric Power Distribution
- 7. Remarks an E. S. Iokhividov's and G. V. Serbinovskii's article
 "Schemes of city networks in connection with multiple story building
 construction." Elektrichestvo No. 10, 1952.

9. Monthly List of Russian Accessions, Library of Congress, January 1953, Unclassified.

- 1. VOLOTSKO Y, N.V.
- 2. USSR (600)
- 4. Fluorescent Lighting
- 7. Technical literature on luminescent lighting., Elektrichestvo, No.11, 1952

9. Monthly List of Russian Accessions, Library of Congress, February 1953, Unclassified.

VOLOTSKOY, N.V., kandidat tekhnicheskikh nauk; KNORRING, G.M., inzhener. Conference on lighting installations. From the Institute of Automatic and

Remote Control of the Academy of Sciences of the U.S.S.R. Elektrichestvo no.8:92-93 Ag 153.

(Electric lighting) (Automatic control) (Remote control)

DOMASHIN, Valentin Alekeandrovich, inzh.; VOLOTSKOV, S.I., red.;
VORONIN, K.P., tekhn.red.

[Use and repair of flexible rubber cables in peat mining]
Ekspluatatsiis i remont gibkikh resinovykh kabelei na torfopredpriiatiiakh. Moskva, Gos.energ.izd-vo, 1957. 94 p.

(Cables, Electric)

(Cables, Electric)

VCICTSKCV, S. I. - Za dal'neyshiy tekhnicheskiy rost kadrevterforrederiyativ.
Torf prem-st', 1948, No. 11, s. 14-16.

SC: Letopis' Zhurnel'nykh Statey, Vol. 47, 1948.

VOLOTSKOV, S.I., inzhener. Improving the planning of peat enterprises. Torf.prom.33 no.2: 8-10 *56. (MLRA 9:6) (MIRA 9:6) (Peat industry)

VOLOV. A.M. (Moskva)

Establishing tolerable limits of vibration in industrial work.

Gig.truda i prof. zab. 2 no.3:9-15 My-Je 158 (MIRA 11:6)

1. TSentral naya nauchno-isaledovatel skaya laboratoriya gigiyeny i epidemiologii Ministerstva putey soobshcheniya.
(VIBRATION--PHYSIOLOGICAL EFFECT)

KUCHERYAVYY, F.I., dotsent; KOSTRIKOV, V.F., gornyy inzh.; KRYSIN, R.S., VOLOV, A.T., gornyy inzh.

Using air pockets in the detonating of borehole charges in quarries. Vzryv. delo no.54/11:310-317 '64. (MIRA 17:9)

1. Dnepropetrovskiy gornyy institut (for Kucheryavyy, Kostrikov, Krysin). 2. Zaporozhvzryvprom (for Volov).

DAVYDOV, Vadim Vasil'yevich, prof., doktor tekhn. nauk. Prinimal uchastiye VOLOV, D.I., kand. tekhn. nauk; VOYEVODIN, N.F., prof., doktor tekhn. nauk, retsenzent; POSTNOV, A.V., kand. tekhn. nauk, retsenzent; NOVIK, R.I., inzh., red.; VITASHKINA, S.A., red. izd-va; BODROVA, V.A., tekhn. red.

[Technical computations in ship-building] Tekhnicheskie vychisleniia v korablestroenii. Moskva, Izd-vo "Rechnoi transport,"
1961. 246 p. (MIRA 15:1)

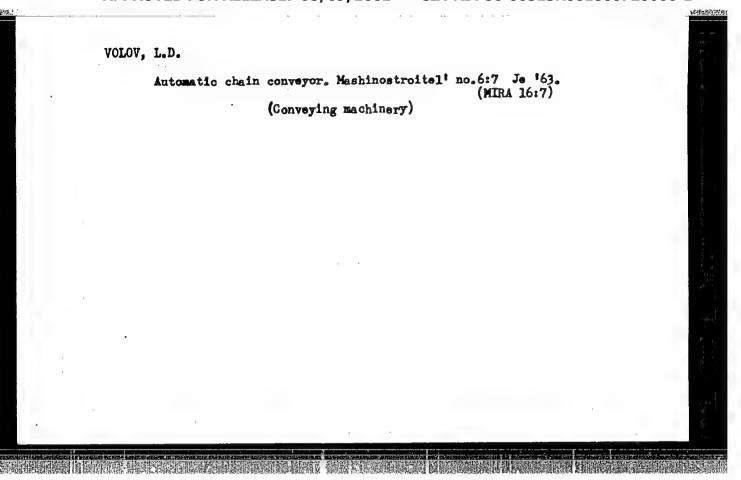
(Shipbuilding)

VOLOV, L.D., inzh.

Chain conveyors with an automatic removing and hanging of buckets.

Mekh. i avtom. proizv. 17 no. 3:23-25 Mr 163. (MIRA 17:9)

"APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001860720006-1



VOLOV, L.M. (Moskva)

Training mathematics teachers according to the new programs. Mat. (MIRA 15:3) v shkole no.2:82 Mr-Ap '62. (MIRA 15:3) (Nathematics--Study and teaching) (Teachers, Training of)

VOLOVEL'SKIY, L.N.

Synthesis of methylpholanthrens from deoxypholic acid. Zhur. ob. , khim. 34 no.722462-2464 Jl 164 (MIRA 1738)

1. Ukrainskiy institut eksperimental ncy endokrinologii.

VOLOV, V.B., student V kursa; FlLIMONOV, N.A., kand.tekhn.nauk, dotsont

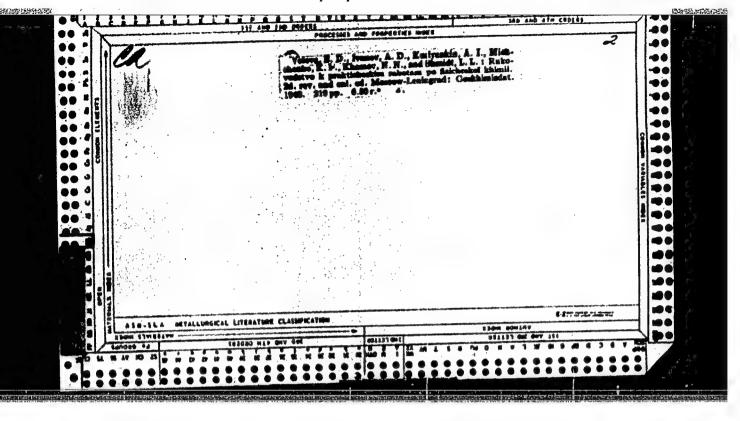
Problems of variable speed transmissions. Hauch. rab. stud. GNSO
(MIRA 14:5)

(Power transmission—Transmission devices)

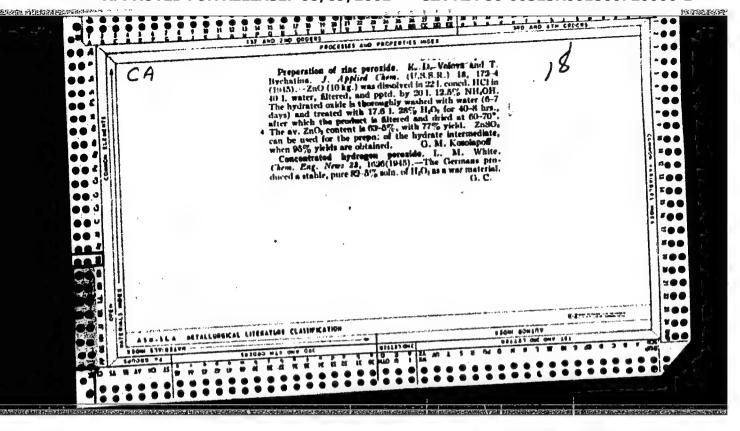
"APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001860720006-1

- 1. VOLOV, Yu.
- 2. USSR (600)
- 4. Solder and Soldering
- 7. Soldering aluminum with high-melting solder. MTS. 12, No. 10, 1952.

9. Monthly List of Russian Accessions, Library of Congress, January 1953, Unclassified.



"APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001860720006-1



LUTSKIY, A.Ye.; VOLOVA, L.M.; CHERNYAYEVSKIY, P.A.

Intramolecular hydrogen bonding and dipole moments in organic compounds. Part 8: 2,4- and 4,6-Diacetylresorcinols and their methyl esters. Zhur. ob. khim. 30 no.12:4085-4088 D *60. (MIRA 13:12)

1. Khar'kovskiy politekhnicheskiy institut.
(Resorcinol-Dipole moments)

(Hydrogen bonding)

"APPROVED FOR RELEASE: 08/09/2001

CIA-RDP86-00513R001860720006-1

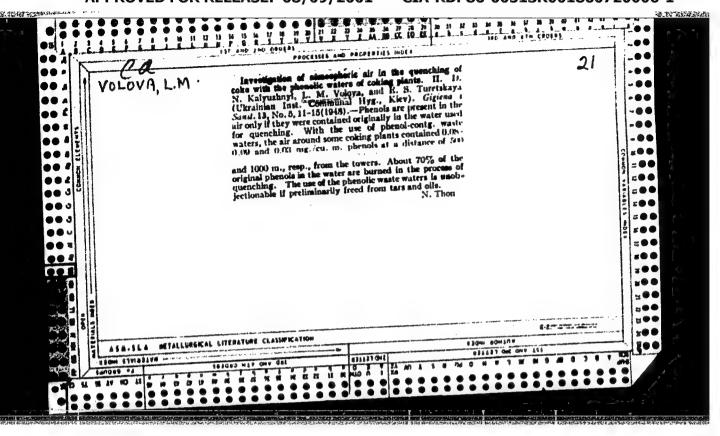
VOLOVA, I. H.

1月在时间的时间将被使用用时的时间,让你们可以大手的点,你们们的自己的问题也是是一个一个一个一个

Experimental Station for Deen Freezing, Khar'kov. (-1939-).

"Research on the Equilibrium of the Coexistent Liquid and Gaseous Phases in the Binary Hixture of Methane-Ethylene."

Zhur. Fiz. Khim., Vol. 14, No. 2, 1940, pp. 268-76

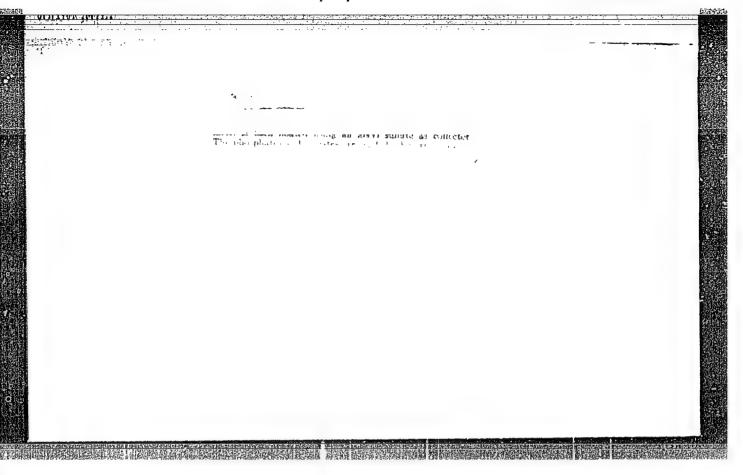


MIKHAYLOV, F.K., VOLOVA, L.M., SHEREMET YEVA, G.I.

Kinetics of zine chloride ammoniate formation at high temperatures. Ukr. khim. zhur. 30 no.1839-43 164. (MIRA 17:6)

1. Nauchno-issladováteliskig institut osnovnoy khimii.

"APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001860720006-1



111 1-. 1010VA

Eygeles, M. A., Khonina, O. I.,

64-8-6/19

AUTHORS:

Yolova, M. L.

TITLE:

Selective Flotation of the Carbonate-Phosphorite Ore (Selektivnaya flotatsiya karbonatno-fosforitnoy rudy).

PERIODICAL:

Khimicheskaya Promyshlennost', 1957, Nr 8, pp. 25-28 (USSR)

ABSTRACT:

The collective effect of the alkyl sulphate in the

flotation of calcite, dolomite, and phosphorite was investigated here. At present some types of the sodium-alkyl

sulphate are produced in the USSR as solutions for the textile industry. One of them was used here. It is produced from the fat of marine animals and has the general formula

R-O-SO3Na. (R contains 12 up to 20 carbon atoms). The

obtained data show that the slightly alkaline medium is the best for the calcite flotation. In the dolomite flotation the PH-value zone of the medium is much broader and in the case of an introduction of great quantities of oxalic acid occurs an intensive flotation in the dolomite. In consequence of

a much slower solution of the dolomite in the acid medium (than in calcite) an acid medium can be maintained in the flotation of the dolomite. In the flotation of calcite it was

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Selective Flotation of the Carbonate-Phosphorite Ore

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not possible to obtain a p_{H} -value of the pulp (dross) below 6. The comparison of the results in the flotation of the calcite and limestone shows that in the flotation by means of the alkyl sulphate the output of the calcite (according to the amount) is analogous to the output of the minerals by other collectors, whereas in the flotation of limestone the essential quantity of the great particles remain in the chamber product. It is assumed that this is connected not only with the more difficult carrying out of the flotation of the fine-crystalline limestone, but also with the natural impurity of it and with the considerably changing surface properties. The screen analysis of the flotation products shows that the essential content of carbonates in the refuse was obtained at the cost of the great particles of the fine-crystalline limestone. A reduction of the grain size of the flotation material up to -74 µ garantees a calcite output up to 90% in the case of a consumption of 750 g sodium alkyl sulphate per 1 ton of ore. Simultaneously an important part of the phosphate (circa 60%) is produced. In order to increase the selectivity in the flotation of the ores with alkyl sulphate the effect

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Selective Flotation of the Carbonate-Phosphorite Ore

64-8-6/19

of the different flotation regulator was investigated here, of the fundamental ones as well as in the purification operation. The investigation of the most used regulator of sodium silicate, showed that in the introduction of the same into the pulp (dross) no considerable improvement of the selectivity occurs in the fundamental flotation. Great sodium silicate quantities exercise a depression on the flotation of the carbonates and phosphates. The introduction of the sodium silicate into purified flotations garantee on the other hand good separation indices (in the separation of the carbonates from the phosphates). Comprisingly it is stated that the application of the sodium alkyl phosphate offers the possibility of obtaining from an ore with 16,8 % P₂O₅ and 20 % CO₂ a phosphate concentrate with 35% P₂O₅ with an output of 92% of the initial product for the flotation. The most essential part of the limestone (85,4%) yields waste products. There are 4 figures, 6 tables, and 9 references, 7 of which are Slavic.

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Selective Flotation of the Carbonate-Phosphorite Ore

64-8-6/19

ASSOCIATION: All-Union Institute of Mineral Raw Materials

(Vsesoyuznyy institut mineral'nogo syr'ya).

AVAILABLE: Library of Congress

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BYORLES, M.A.; KHONINA, O.I.; VOLOVA, M.L.

Selective flotation of carbonate - phosphorite ore, Khim. prom.

no.8:473-476 D '57.

1. Veesoyusnyy institut mineral'nogo syr'ya.

(Carbonates) (Phosphorites) (Flotation)

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AUTHORS:

Lygeles, M.A., Volova, M.L.

307/20-129-1-49/64

TITLE:

On the Effect of the Temperature of the Medium on Induction Time in Connection With the Adhesion of Mineral Particles to

an Air Bubble

PERIODICAL:

Doklady Akademii nauk SSSR, 1959, Vol 129, Nr 1, pp 177-180

(USSR)

ABSTRACT:

The relationships so far discovered between the characteristics of the surface condition and the adhesion in connection with flotation are only qualitative (Ref 1). The device suggested by the author (Ref 1) for investigating the adhesion of mineral particles to an air bubble has recently been improved (by V.I. Luchkov, M.A. Eygeles, V.P. Kuznetsov etc.). A circulation thermostat (by V.P. Kuznetsov and E.Sh.Shafeyev) was used. The effect mentioned in the title was quantitatively investigated by the authors with constant age of the suspension and air bubble. Figures 1 and 2 show the above effect for various minerals in coordinates lgt and $\frac{1}{T}$ (τ = induction

time in seconds). Induction time is rapidly decreased by increasing temperature. It drops to one tenth and one

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On the Effect of the Temperature of the Medium on Induction Time in Connection With the Adhesion of Mineral Particles to an Air Bubble

hundredth of a second in the case of several minerals and various particle sizes. Despite the dependence of induction time on particle size, the character of this dependence remains equal for particles of the same size - the straight lines (lgt, $\frac{1}{T}$) are parallel. The collectors (Lauryl-Amin) considerably reduce induction time upon adhesion. The authors investigated the effect of the temperature of the medium on induction time in the presence of collectors (Ref 1). Figure 3 shows the joint effect of the collector and temperature increase. The higher the concentration of the collector in the solution (thus, the more quantities of it are on the surface of the mineral - the sorbed quantity is smaller than the monolayer) the weaker the effect of temperature increase on induction time. The experimental dependence of induction time on temperature is expressed by equation (1): $lg\tau = A/T + B$ (1); A and B = constants. In this case the authors proceeded from the assumptions of A.N. Frumkin and B.V. Deryagin (Refs 4,5). Temperature increase changes the

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On the Effect of the Temperature of the Medium on Induction Time in Connection With the Adhesion of Mineral Particles to an Air Bubble

condition of the double layer, the viscosity of water in the boundary layers, and the chemical composition of the surface compounds. The most important result of temperature increase within the medium, however, is increased agitation of the water molecules in the boundary layers. Consequently, these layers become unstable. Thus they become thinner and adhesion increases. If it is assumed that the mechanism of the heat conduction depends on this instability process of the wetting film, induction time may be considered to be characteristic of the total rate of the instability processes of the boundary layers on the solid surface and the separating layer of the air bubble. The apparent activation energy required to make the boundary layers unstable can be computed from the data characterizing the rate of the adhesion process. For this purpose a method analogous to that by Ya.I. Frenkel' (Ref 6) was used by the authors. Equation (1) is represented as equation (2) for τ. Table 1 shows the data computed from equation (2) for minerals of different nature and for different types of grinding. The collector introduced into the

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suspension rapidly decreases this energy so that it approaches zero at certain concentrations of the collector. It may be assumed that the sorption of the collector on the mineral surface considerably disturbs the wetting film. Thus the surface layers become unstable. In the case of sorption this task is accomplished by the collector. The apparent activation energy is not the only criterion of the adhesion process. Induction time is an additional characteristic of the process. There are 3 figures, 1 table, and 6 Soviet references.

ASSOCIATION:

Vsesoyuznyy nauchno-issledovatel'skiy institut mineral'nogo syr'ya (All-Union Scientific Research Institute of Mineral Raw Materials)

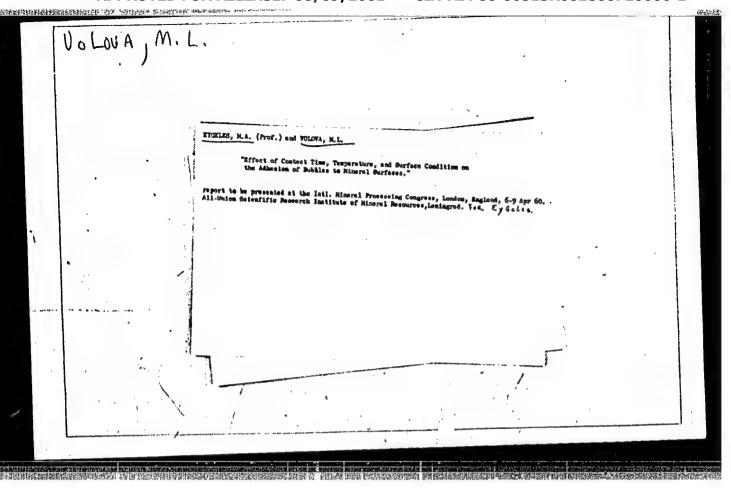
PRESENTED:

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Card 4/4



EYGELES, M.A.; VOLOVA, M.L.

Kinetic investigation of the role of collectors in adherence during flotation. TSvet. met. 33 no.6:4-10 Je 160. (MIRA 14:4)

1. Vsesoyuznyy institut mineral'nogo syr'ra. (Flotation—Equipment and supplies)

EYGELES, M.A.; VOLOVA, M.L.

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Effect of dissolving a mineral on the properties of the solution - air interface and on the induction time in sticking. Dokl.AN SSSR 133 no.4:897-900 Ag '60. (MIRA 13:7)

1. Vaesoyuznyy institut mineral nogo syr'ya. Predstavleno akad. P.A. Rebinderom. (Flotation)

EYGELES, M.A.; VOLOVA, M.L.

Effect of the solution of apatite on the time of induction in flotation adhesion. Dokl. AN SSSR 138 no.5:1158-1161 Je '61. (MIRA 14:6)

l. Vsesoyuznyy nauchno-issledovatel'skiy institut mineral'nogo syr'ya. Predstavleno akademikom P.A.Rebinderom. (Apatite) (Suspensions (Chemistry))

EIGELES, M.A.; VOLOVA, M.L.; VOLVENKOVA, V.S.; UMRIOVA, Ye.G.

Radiometric investigation of the formation of calcium compound films at the solution-air interface and their effect on adhesion in flotation. Dokl. AN SSSR 147 no.1:166-169 N '62. (MIRA 15:11)

l. Vsesoyuznyy nauchno-issledovatel'skiy institut mineral'nogo syr'ya. Predstavleno akademikom P.A. Rebinderom. (Calcium compounds) (Flotation)

EYGELES, M.A.; VOLOVA, M.L.; VOLVENKOVA, V.S.; UMNOVA, Ye.G.

Role of colloids in the flotation process. TSvet. met. 36
no.6:3-10 Je '63. (MIRA 16:7)

(Colloids) (Flotation)

EYGELES, M.A.; ANTONOVA, T.N.; KUZNETSOV, V.P.; VOLOVA, M.L.;
SAKHAROVA, Ye.P.; KOSYGIN, V.V.; KISLOV, A.V.; BALASHOVA,
G.G.

Simultaneous production of high-quality fluorite concentrates from multicartenate cres low in fluorite. TSvet. met. 37 no.ll: 32-35 N '64. (MIRA 18:4)

EYERLES, M.A.; FOLOWA, M.I.

Servet of the flow of air hubbles on the formation of films of cultime computes on the curtics of colutions. Doki. AN SSCR [MIRA 1818]

1. Vacaoyunanyy nauchne-tested water lookly institut mineral loops syrige.

Cubmitted January 25, 1965.

EYGELES, M.A.; VOLOVA, M.L.

Formation of films from products of the reaction of Eddium cleate with a calchim sait at the solution - air interface and their effect on flotation sticking. Doki. AN SUSR 160 no.4:883-886 F 165. (MIRA 18:2)

1. Vsesoyuznyy nauchno-lasledovateliskiy institut mineralinogo syriya. Submitted July 27, 1964.

"On the mechanism of activation and depressant action in soap flotation."
report submitted for 7th Intl Mineral Processing Cong, New York, 20-25 Sep 64.

VOLOVA, N.A.: VAGINA, Ye.G.

Analysis of the causes of late hospitalization of children with tuberculous meningitis. Vop.okh.mat. i det. 1 no.1:66-70 Ja-F 150. (MIRA 9:9) 1. Iz Detskoy tuberkuleznoy bol'nitsy rannego vozrasta. Vserdlovsk (glavnyy vrach N.A. Volova)
(MENINGES--TUBERCULOSIS) (CHILDREN--DISEASES)

VOLOVA, N.N.

Estrual cycle and morphological changes in the sexual organs of rats following trauma of the sciatic nerve. Eksper.khir. i anest. no.2:55-57163. (MIRA 16:7)

1. Iz Instituta akusherstva i ginekologii (dir.-prof. O.V. Makeyeva) Ministerstva zdravookhraneniya RSFSR.

(SCIATIC NERVE—WOUNDS AND INJURIES) (ESTRUS)

(GENERATIVE ORGANS, FEMALE)

VOLOVA, N.N., kand.med.nauk

Course and management of labor in the case of a large fetus. Vop. okh. mat. i det. 7 no.2:70-73 F '62. (MIRA 15:3)

1. Iz rodil'nogo doma No.10 (glavnyy vrach 0.V. Polyanskaya), Moskva.

(LABOR, COMPLICATED)

VOLOVA, N. N., (Physician)

Dissertation: "The Course of Pregnancy, Estrual Cycle, and Morphological Changes of the Sexual Organs in Animals With a Trauma of the Sciatic Nerve." Cand Med Sci, Kishinev State Medical Inst, 19 May 54. Sovetskaya Moldaviya, Kishinev, 7 May 54.

SO: SUM 284, 26 Nov 1954

MULAGULOVA, G.A.; SOKOLENKO, G.S.; VOLOVA, P.I.

Work in eliminating favus. Zdrav. kazakh. 21 no.12:27-29

work in eliminating lavus. Zdrav. kazakn. 21 no.12:27-29
161. (MIRA 15:3)

SIGOV, I.V., kand.tekhn.nauk; VOLOVA, T.A., inzh.

Planetary drive for the SN-150 mixer. Khim. mash. no. 3:37-39
My-Je '60. (Mixing machinery)

(Mixing machinery)

SIGOV, I.V., kand.tekhn.nauk; VERUGA, V.F., inzh.; YOLOVA, T.A., inzh. Motor-reducers based on high-speed electric motors. Vest.
mashinostr. 42 no.8:49 Ag '62. (MIRA 15:8)
(Electric driving)

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VOLOVA, Ye.D.

Graplex formation in aqueous solutions. Report No.1. Trudy
LTI no.61:52-59 '60.

(Gomplex compounds) (Solution (Chemistry))

VOLOVA, Ye.D.; YEGOROV, I.M.

Complex formation in aqueous solutions of electrolytes. Trudy
LTI no.61:60-64 '60. (MIRA 15:5)

(Complex dompounds) (Electrolyte solutions)

BARON, H.M.: VOLOVA, Ye.D.; YEGOROV, I.M.; KVYAT, E.I.; MISHCHENKO, K.P., prof.; PONOMAREVA, A.M.; RAVDEL, A.A., dots.; SEMENOV, G.I.; LOBINA, H.K., red.; ERLIKH, Ye.Ye., tekhn.red.

[Practical work in physical chemistry] Prakticheskie raboty po fizicheskoi khimii. Pod red. K.P.Mishchenko i A.A.Ravdelia. Leningrad, Gos.mauchno-tekhn.izd-vo khim.lit-ry, 1957. 263 p. (MIRA 11:2)

(Chemistry, Physical and theoretical--Laboratory manuals)

MISHCHENKO, K.P.; PONOMAREVA, A.M.; RAVDEL¹, A.A.; BARON, N.M.;
YEGOROV, I.M.; KVYAT, E.I.; VOLOVA, Y.D.; MARKOVICH, V.G.;
SEMENOV, G.I.; MARGOLIS, V.N., SMORODINA, T.P.; YAVORSKIY,
I.V. Prinimal uchastiye FRANK-KAMENETSKIY, V.A.; TCMARCHENKO,
S.L., red.; LEVIN, S.S., tekhn. red.

[Practical work in physical chemistry] Prakticheskie raboty po fizicheskoi khimii. Izd.2., perer. Ieningrad, Gos. nauchnotokhn. izd-vo khim. lit-ry, 1961. 374 p. (MIRA 15:2) (Chemistry, Physical and theoretical—Laboratory manuals)

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PHASE I BOOK EXPLOITATION

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Baron, N.M., Ye. D. Volova, I.M. Yegorov, E.I. Kvyat, K.P. Mishchenko, A.M. Ponomareva, A.A.Ravdel, and G.I. Semenov

Prakticheskiye raboty po fizicheskoy khimii (Practical Work in Physical Chemistry) Leningrad, Goskhimizdat, 1957. 263 p. 11,000 copies printed.

Eds. (Title page): K.P. Mishchenko, Professor, and A.A. Ravdel', Docent; Ed. (Inside book): N.K. Lobins; Tech. Ed.: Ye. Ya. Erlikh.

PURPOSE: This textbook was approved by the Ministry of Higher Education as a manual for students of vuzes specializing in chemistry.

COVERAGE: The text covers the theoretical and practical aspects of experimental physical chemistry. It is the aim of the authors to aid the student in his laboratory work by preceding each experiment with a theoretical introduction, a description of the apparatus, and the order of the determination and computation of results. Much attention is given to the fundamentals of chemical thermodynamics, reaction kinetics, and equilibrium. The basic techniques of

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Practical Work in Physical Chemistry

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experimentation and the treatment of experimental data are presented so as to enable the student to work independently. The text was prepared jointly by the staff of the Department of Physical Chemistry, Leningradskiy tekhnologicheskiy institut imeni Lensovets (Leningrad Technological Institute imeni Lensovet) with K. P. Mishchenko and A.A. Ravdel' as editors, and N. M. Baron and A.M. Ponomareva as coeditors. The book was reviewed by Professors V.A. Kiryeev, B.P. Nikol'skiy, corresponding member of the AS USSR, and by the staff of Professor Nikol'skiy. There are no references.

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